IFW 1656

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Docket Number
12178/2

Application Number	Filing Date	Examiner	Art Unit
10/070,480	July 8, 2002	David J. STEADMAN	1656

Invention Title	Inventor(s)
STEREOSTRUCTURE OF DECARBAMYLASE AND USES THEREOF	Takahisa NAKAI et al.

Address to:
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56, attorneys for Applicants hereby bring the following references to the attention of the Examiner. The references are listed on the attached PTO Form Nos. SB08A and SB08B. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

2. The filing of this Information Disclosure Statement and the enclosed PTO Form Nos. SB08A and SB08B, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b).

3. A copy of each non-U.S. patent, non-U.S. published application, unpublished U.S. application, non-patent publication, or other information listed on the PTO Form Nos. SB08A and SB08B is enclosed.

4. The Commissioner is hereby authorized to charge payment of the 37 C.F.R. §1.17(p) (submission of information disclosure statement under §1.97(c) fee of **$180.00** and any additional fees that may be required to the deposit account of **Kenyon & Kenyon LLP**, deposit account number **11-0600**. A duplicate copy of this communication is enclosed for charging purposes.

Dated: April 7, 2006

By: King L. Wong
King L. Wong (Reg. No. 37,500)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	

Complete if Known	
Application Number	10/070,480
Filing Date	July 8, 2002
First Named Inventor	Takahisa NAKAI
Art Unit	1656
Examiner Name	David J. STEADMAN
Attorney Docket Number	12178/2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3], Number[4], Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		JP 9-173068	07-08-1997			ab
		JP 8-84584	04-02-1996			ab
		WO 97/02005	01-23-1997			ab

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
		St. Clair et al., Cross-linked enzyme crystals as robust biocatalysts, J. Am. Chem. Soc. 114: 7314-7316, 1992.	
		Flores et al., An algorithm for automatically generating protein topology cartoons, Prot. Eng. 7(1) : 31-37, 1994.	
		Morris et al., Automated docking using a lamarckian genetic algorithm and an empirical binding free energy function, J. Computational Chemistry 19(14): 1639-1662, 1998.	
		Morris et al., Distributed automated docking of flexible ligands to proteins: Parallel applications of AutoDock 2.4, J. Computer-Aided Molecular Design 10: 293-304, 1996.	
		Goodsell et al., Automated docking of flexible ligands: Applications of AutoDock, J. Mol. Recognition 9: 1-5, 1996.	
		Guex and Peitsch, SWISS MODEL and the Swiss-PDBViewer: An environment for comparative protein modeling, Electrophoresis 18: 2714-2723, 1997.	
		Grifantini et al., Topological mapping of the cysteine residues of N-Carbamyl-D-amino-acid amidohydrolase and their role in enzymatic activity, J. Biol. Chem. 271(16): 9326-9331, 1996.	
		Kyte et al., A simple method for displaying the hydropathic character of a protein, J. Mol. Biol. 157: 105-132, 1982.	
		Takahashi et al., Electrostatic forces in two lysozymes: Calculations and measurements of histidine pKa values, Biopolymers 32: 897-909, 1992.	
		Segel, Enzyme Kinetics: Behavior and analysis of rapid equilibrium and steady state enzyme systems, J. Wiley & Sons, New York, 1975 (only Table of Content included).	
		Pearson et al., Improved tools for biological sequence comparison, Proc. Natl. Acad. Sci. 85: 2444-2448, 1988.	
		Altschul et al., Grapped BLAST and PSI-BLAST: A new generation of protein database search programs, Nucl. Acids. Res. 25(17): 3389-3402, 1997.	

Examiner		Date considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1]Applicant's unique citation designation number (optional). [2]See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3]Enter Office that issued the document, by the two letter code (WIPO Standard ST.3). [4]For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6]Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	3

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Application Number	10/070,480
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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		Nanba et al., Isolation of *Agrobacterium* sp. strain KNK712 that produces n-carbamyl-d-amino acid amidohydrolase, colong of the gene for this enzyme, and properties of the enzyme, Biosci. Biotechnol. Biochem. 62(5): 875-881, 1988.	
		Weiner et al., An all atom force field for simulations of proteins and nucleic acids, J. Comp. Chem. 7(2): 230-252, 1986.	
		Methods in Enzymology 114, edited by Wyckoff et al., Academic Press, San Diego, CA, Nov 1985 (only Table of Contents included).	
		Colowick et al., Diffraction Methods for Biological Macromolecules Part A, Methods in Enzymology 114, Academic Press, San Diego, CA, Nov 1985 (Abstract included only).	
		Methods in Enzymology 276, edited Carter, Jr., Academic Press, New York, 1997 (Table of Content included only).	
		Abelson, Macromolecular Crystallography Part A, Methods in Enzymology 276, edited by C. W. Carter, Jr. and R. M. Sweet, Academic Press, New York, NY, 1997 (Abstract and Table of Content included only).	
		Rodgers, [13] Practical cryocrystallography, Methods in Enzymology 276: 183-203, 1997.	

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